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BALASHOV, V.V.; DOLESHAL, P.; KORENMAN, G.Ya.; KOROTKIKH, V.L.; FETISOV, V.N.

Effect of "shape resonances" on channel coupling in nuclear reactions. IAd. fiz. 2 no.4:643-656 0 '65. (MIRA 18:11)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

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6 22530-66 EnT(m)/T	
ACC NR: AP6009715	SOURCE CODE: UR/0386/66/003/004/0170/0173
AUTHOR: Fetisov, V. N.	
	P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskly
institut Akademii nauk SSSR)	
TITLE: Influence of the struction cross section	ture of three-particle nuclei on the photodisintegra-
<del></del>	'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. 6, 170-173
TOPIC TAGS: Gamma cross secti photoeffect, nuclus	on, Gamma interaction, tritium, helium, wave function,
(by more than a factor of 3) be the cross section of the react 7.72 Mev). This is done by an the disintegration of He <sup>3</sup> by a wave functions contained in the	to show the possible cause of the large disparity etween the theoretical and experimental values of ion $\gamma + \text{He}^3 + p + p + n$ (with reaction threshold alyzing the usual expression for the cross section of $\gamma$ quantum of given energy and the structure of the is formula for the cross section. He then obtains to disintegration of the nuclei $R^3$ and $R^3$ via $(\gamma)$
Card 1/2	

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Diagnosis of malignant neoplasms of the thyroid gland by the puncture method. Klin.khir. no.5:58-61 My '62. (MIRA 16:4)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. G.G.Karavanov) lechebnogo fakul'teta L'vovskogo meditsinskogo instituta i kafedra gistologii (zav. - zaslushennyy deyatel' nauki, prof. B.V.Aleshin) Khar'kovskogo meditsinskogo instituta.

(THYROID GLAND.—CANCER)

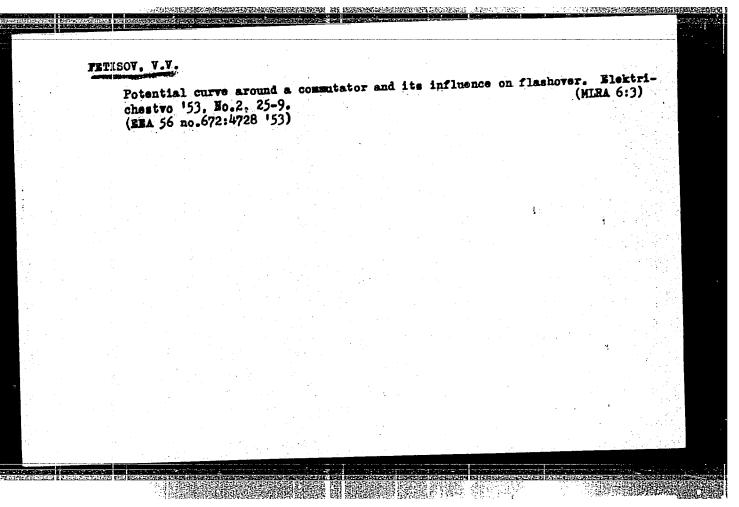
FETISOV, V. V.	ENGR.	189724
	"Elektrichestvo" No 5, pp 41-47  Cites methods for exptl detn of the commutation reactance of the armature which make it possible to exam commutation reactance in both steady-state and transient operating and transient operating and transient operating and the some results of research fone tions. Supplies some results of research fone isometicity - DC Machines (Contd.)  In the Elec-Mach Lab, Leningrad Polytech Inst, which confirm applicability of described methods. Submitted 4 Aug 50.  189724	Communication on mature

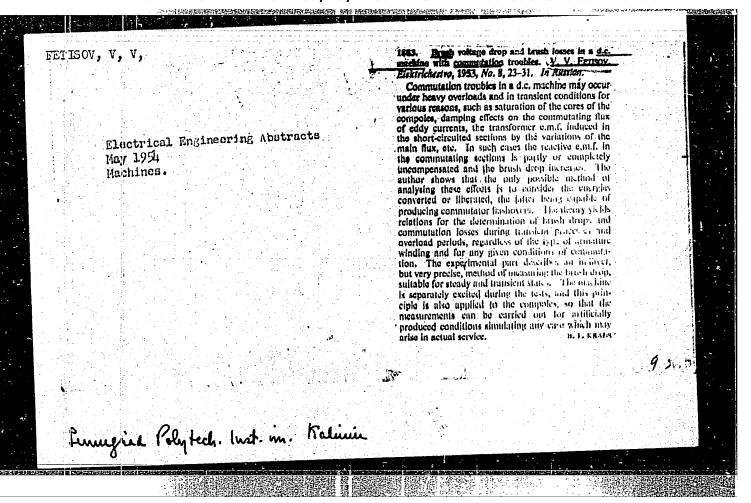
EETISOV, V. V.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Sudden Short-Circuiting of Direct-Current Generators." 11 February 1952. A series of substantial results has been obtained with regard to the theoretical and experimental investigations of individual phenomena (transverse and commutation reaction of the armature, transition drop in voltage, eddy currents, inductances of the windings of the machine, potential curve on the commutator) and the very process of short-circuiting. These results can be suitable in an investigation of other cases of short-circuiting in machines of other types and also in the investigation of other types of transition processes in dc machines.

So: M-1048, 28 Mar 56





FETTSOV, V.V.

AID P - 1598

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 7/27

Author : Fetisov, V. V., Kand. of Tech. Sci., Dotsent, Leningrad

Title : Experimental determination of the armature reaction in

d-c machines

Periodical: Elektrichestvo, 3, 33-36, Mr 1955

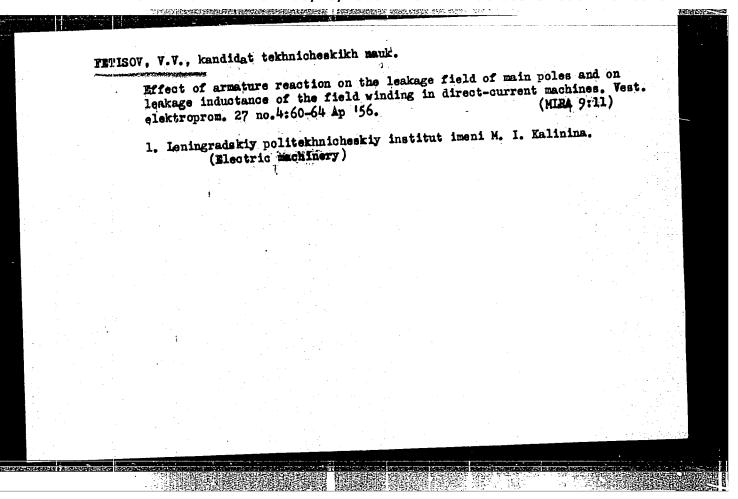
Abstract : The author presents an experimental method, based on the

determination of the resultant flux from saturation curves. Tests are made with a GM-282-type, 118-kw, 440-v, 300-a, 1000-rpm, d-c generator with separate excitation. The author concludes that his method can be used under steady state and transient conditions, and is most exact under overloads. Seven diagrams,

5 Russian references (1950-1953)

Institution: Leningrad Polytechnical Institute im. Kalinin

Submitted: N 20, 1954



507105-58-7-5/32

AUTEORS:

Pruss-Zhukovskiy, V. V., Engineer

Fetisov, V. V., Docent, Candidate of Technical Sciences

(Leningrad)

TITLE:

Compensation of the Effective Resistance in the Rotor Circuits of Model System Synchronous Generators (Kompensatsiya aktivnogo soprotivleniya v tapi rotora sinkhronnykh, generatorov

elektrodinamicheskikh modeley)

PERIODICAL:

Elektrichestvo, 1958, Nr 7, pp. 19-24 (USSR)

ABSTRACT:

At present a considerable number of electrodynamic models is in operation in a number of scientific institutes (MEI, LPI, IEM, AN SSSR, ENIN AN UZSSR, ZSFAN SSSR and others). By means of these models problems in connection with electric transmission are solved. All these models have single-phase collector generators as a necessary element. The experience obtained with the use of such generators in electrodynamic models of the IEM AS USSR and the LPI imeni M. I. Kalinin which were produced under the supervision of M. P. Kostenko, Member, Academy of Sciences, USSR, is generalized here. During

Card 1/4

CIA-RDP86-00513R000412920018-4" APPROVED FOR RELEASE: 08/23/2000

307**7**05-58-7-5/32

Compensation of the Effective Resistance in the Rotor Circuits of Model System Synchronous Generators

the operation of electrodynamic models, the single-phase collector-generators must meet the following requirements: 1) Constancy of the compensation resistance in the case of both static and dynamical operation within the given range of current variation in the model rotor of the generator. 2) Possibility of a gradual control of the compensation resistance. 3) Stability of operation. 4) A permissible value of the inductive resistance according to the conditions holding for the parameters of the model generator. 5) Simple and convenient construction. 6) Low cost and 7) high reliability in operation. For the purpose of analysing the operational conditions of a single-phase collector generator used as a compensator in the electrodynamic model, the process taking place at connecting the rotor circuit to the model-generator during free motion is investigated. It is shown that the connection of the compensator is equivalent to the introduction of a negative effective resistance R and of a certain additional inductance L into the circuit of the model generator. E - the EMF of the compensator, L - the inductance of the collector generator. The formula (3) derived here for

Card 2/4

SOV/ 105-58-7-5/32

Compensation of the Effective Resistance in the Rotor Circuits of Model System Synchronous Generators

the EMF of the exciter E shows that the introduction of a negative resistance R makes it possible to determine the value of the total effective resistance of the generator--rotor circuit given according to the model conditions. In order to obtain a constant degree of compensation (decrease of the total resistance in the case of compensation), it is necessary to have a linear dependence  $E_k = f(i_f)$  and a constant total resistance r. A number of factors in-fluencing the value of the compensation resistance is shown. The instability of operation of the collector generator is described by means of a diagram. The two causes for this instability - the hysteresis and the change of resistance of the brush contacts are investigated and the measures guaranteeing a satisfactory operation of the collector generators are shown. As practical operation, these measures are sufficiently effective and make it possible to obtain a practically constant compensation resistance in those cases where the degree of compensation is not very high. At present, considerable number of collector generators was manufac-

Card. 3/4

SOV/105-58-7-5/32-

Compensation of the Effective Resistance in the Rotor Circuits of Model System Synchronous Generators

tured on the basis of normal d.c. motors of the type  $\Pi$  H. Summarizing, it is stated that the single-phase collector generator may be successfully used for the compensation of the effective resistance of rotor circuits in alternators of electrodynamic models. There are 5 figures, 1 table, and 4 references, 4 Soviet references.

SUBMITTED:

September 7, 1957

1. Impedance--Measurement 2. Generators--Performance

Card 4/4

SOV/144-58-8-17/18

AUTHORS:

Fetisor, V.V. and Pruss-Zhukovskiy, V.V.

TITLE:

New Method of Experimental Determination of the Optimum Parameters of Additional Poles of DC Machines (Novyy metod eksperimental'nogo opredeleniya optimal'nykh parametrov dobavochnykh polyusov mashin postoyannogo toka) (Comments on a Paper of Ye.M. Sinel'nikov and A.G.

(Comments on a Paper of Ye.M. Sinel'nikov and A.G. Nazikyan, published in Nr 4 issue of this journal) (Stat'ya Ye.M. Sinel'nikova i A.G. Nazikyana,

"Elektromekhanika", Nr 4)

PERIODICAL:

Izvestija Vjsshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 8, pp 134 - 136 (USSR)

ABSTRACT:

The authors of the contribution arrive at the conclusion that the new method of experimental determination of the optimum parameters of additional poles, proposed in the

original article, is applicable for setting of the commutation of series-connected machines in cases in which reliable commutation can be obtained by appropriate regulation of the air gap or the numbers of turns of the additional pole. This new method does not substitute the

method of spark-free sones, particularly in the case of setting the commutation of large DC machines with difficult

Card1/2

SOV/144-58-8-17/18

New Method of Experimental Determination of the Optimum Parameters of Additional Poles of DC Machines (Comments on a Paper of Ye.M. Sinel'nikov and A.G. Nazikyan, Published in Nr 4 Issue of this Journal)

> conditions of commutation and during commutation studies. The basic equations derived by the authors from the simplified theoretical assumptions of the method which they present are confirmed by a more accurate analysis of the problem.

There are 7 Soviet references.

ASSOCIATION:

Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute)

SUBMITTED:

August 30, 1958

Card 2/2

BOBROY, V.M.; VORONOV, A.A.; CLEBOY, I.A.; IVANOY, V.I.; KARPOY, C.V.;

KASITELYAN, Y.Ye.; SEMENOY, Y.Y.; SIROTKO, Y.K.; SIRII, N.S.;

SUKHANOY, I.A.; URUSOY, I.D.; FERISOY, Y.Y.; FOMINA, Ie.N.;

KOSTENKO, M.P., akademik, red.; DOLMATOY, P.S., red.; izd-va;

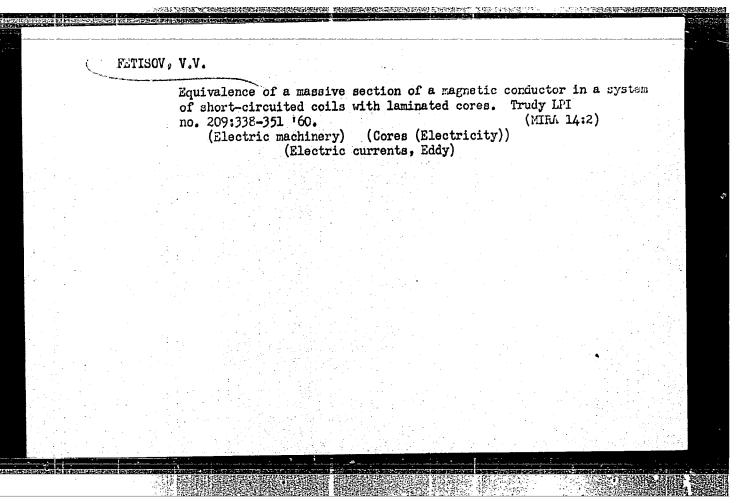
SMIRROYA, A.V., tekhn.red.

[Electrodynamic modeling of power engineering systems] Elektrodinamicheskoe modelirovanie energeticheskikh sistem. Fod red.

M.P.Kostenko. Moskva, 1959. 406 p.

1. Akademiya nauk SSSR. Institut elektromekhaniki.

(Electric networks--Slectromechanical enalogies)



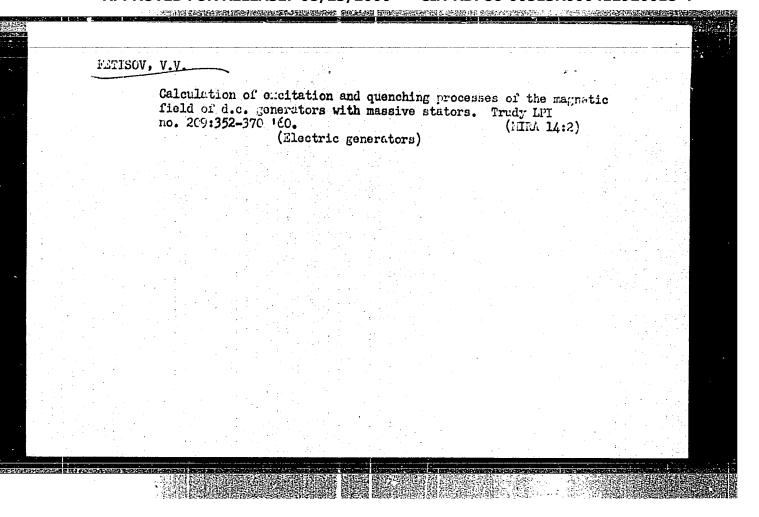
FETISOV, Viktor Vladimirovich, kand.tekhn.nauk, dotsent

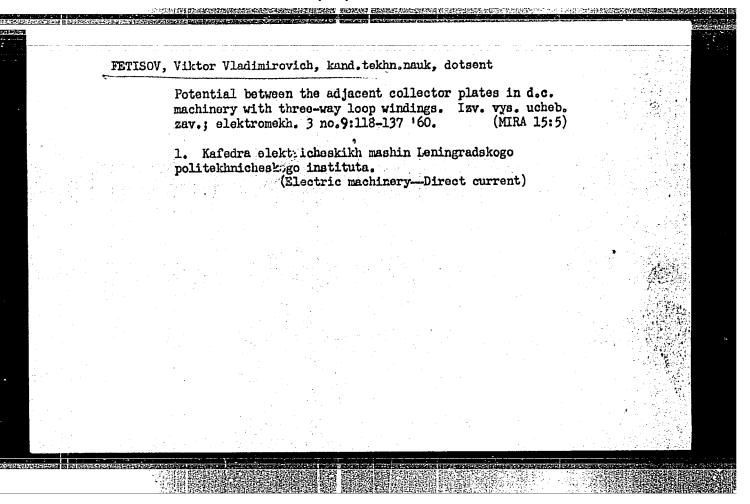
Potential between the adjacent collector plates in d.c.
machinery with two-way loop windings. Izv. vys. ucheb.
zav.; elektromekh. 3 no.6:49-65 '60. (MIRA 15:5)

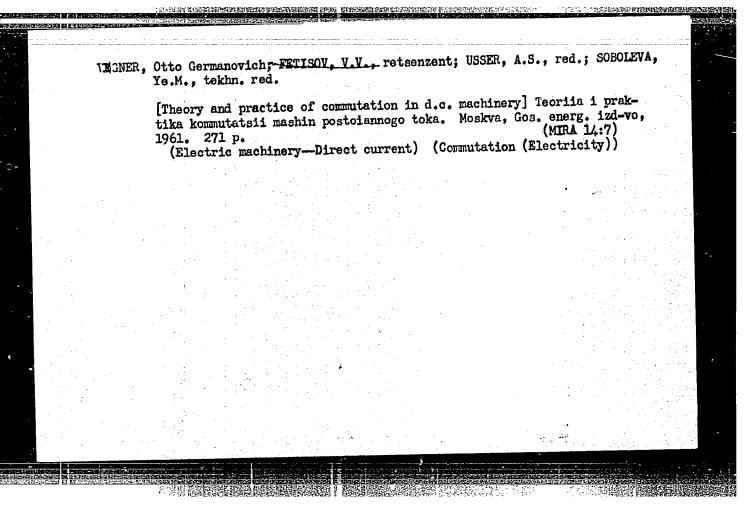
1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo
instituta. (Electric machinery—Direct current)

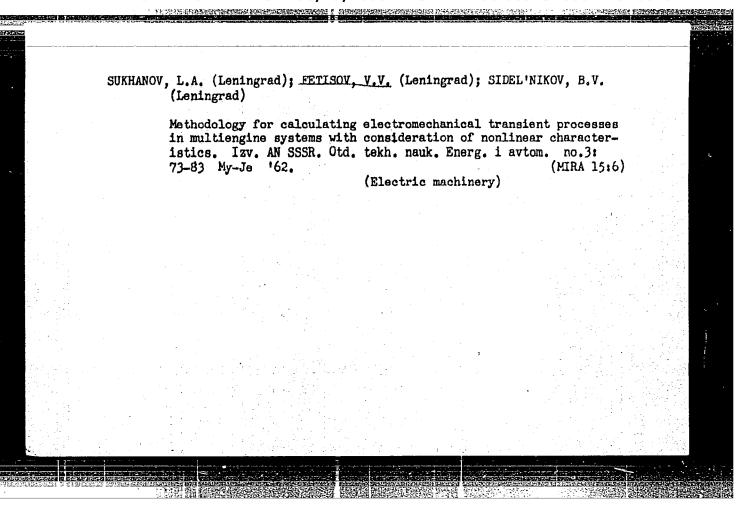
Calculation of the magnetomotive force of the commutation reaction in d.c. machines for brush overlap greater than unity. Elektrichestvo no.5:46-50 My '60. (MIRA 13:9)

1. Ieningradskiy politekhnicheskiy institut. (Electric machinery) (Rotating amplifiers)









FETISOV, V.V. (Leningrad); KVARTAL'NOV, B.V. (Leningrad); IVANOV, Yu.Ya.

(Leningrad); PINCHUK, V.M. (Leningrad); TIKHOMIROV, A.N.

(Leningrad)

Generator-motor inverse d.c. to a.c. converter. Izv. AN SSSR.

Otd. tekh. nauk. Energ. i avtom. no.4:32-39 Jl-Ag '62.

(MIRA 15:8)

(Electric current converters)

FETISOV, Viktor Vladimirovich, kand. tekhn. nauk, dotsent

Study of the magnetic field of the auxiliary poles of d.c. machines subject to overloads and shock loads. Izv. vys. ucheb. zav.; elektromekh. 5 no.6:693-704 162. (MIRA 15:10)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta.

(Electric machinery—Direct current)
(Magnetic circuits)

FETISOV, Viktor Vladimirovich, kand. tekhn. nauk, dotsent

Calculation of the inductance of the rotor circuit of a non-compensated d. c. machine with consideration of the saturation of the toothed zone. Isv. vys. ucheb. zav.; elektromekh. 5 no.11:1247-1258 162. (MIRA 16:1)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta.

(Electric machinery—Direct current)
(Magnetic circuits)

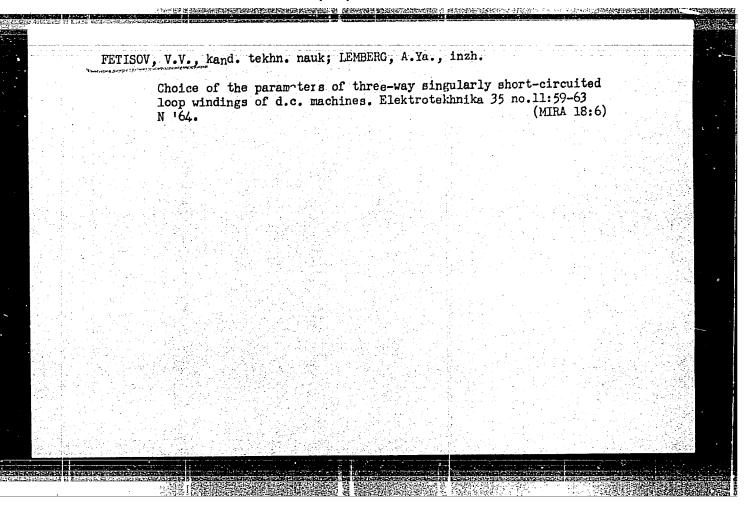
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3 0.13-65 3PA(s)-2/PMT(1)	
ACCESSION NR: AT5004636	5/2563/64/000/241/0033/0040
AUTHOR: Fetisov, V. V.; Sidel'nikov, I	3. V.: Ivanov, Yu. Ya.
TITLE: Investigation of the excitation sys	
SOURCE: Leningrad. Politekhnicheskiy i	nstitut. Trudy, no. 241, 1964. chinery manufacture) 33-40
TOPIC TAGS: synchronous machine, MG	
ABSTRACT: Phase-compounding and cur circuits are briefly described; it is shown reliable; also, it provides for a stronger conditions. The current-compounding cir mentally tested. The synchronous-machi two rectifier units: a "voltage unit," which	that the litter is simpler and more forcing of the excitation under transient cuit (se. Enclosure I) was experi- ne excitation winding was supplied from
Card 1/\$*2/	

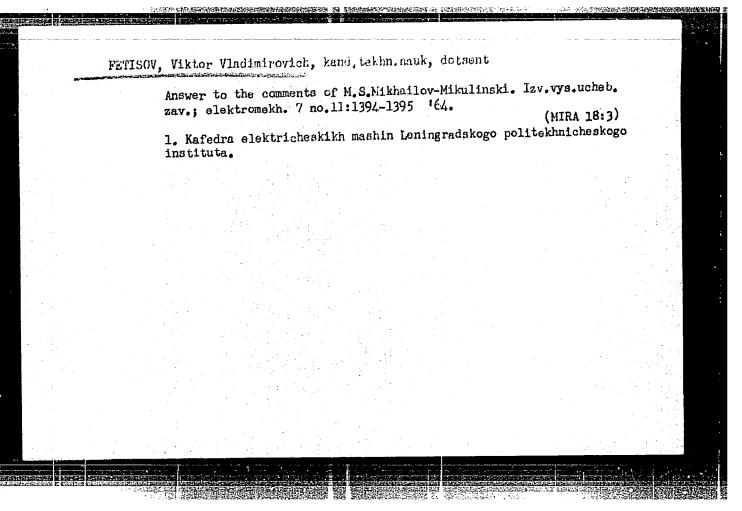
L 36488-65 ACCESSION NR: AT5004636 conditions, and a "current unit" (compounding), which supplied the excitation current depending on the load. Under variable of conditions, the proper voltage was maintained by an automatic voltage regulator which included a 3-phase magnetic amplifier, a detector, and a voltage-frequency compensation circuit. I he detector was represented by a nonlinear resonant circuit which included a for what apacitor, and a billige is machine proved the reliability, stability or special meaning characteristics of the current-compounding system. Orig. art. has: - and id formulas. ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute) SUBMITTED: 00 ENCL: 01 SUB CODE: EE NO REF SOV: 006 OTHER: 000 Card 2/3

FETISOV, Viktor Vladimirovich, kand.tekhn.nuk, dotsent; SIDEL'NIKOV, Boris Viktorovich, assistent; YUSHCHENKO, Anatoliy Grigor'yevich, inzh.

Calculating sudden short-circuiting in a d.c. machine using an analog computer. Izv.vys.ucheb.zav.; elektromekh. 7 no.11:1311-1320 '64. (MIRA 18:3)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta (for Fetisov, Sidel'nikov). 2. Leningradskiy politekhnicheskiy institut (for Yushchenko).





SIDEL'NIKOV, Boris Viktorovich, assistent; SUKHANOV, Lev Aleksandrovich, kand. tekhn.nauk, starshiy nauchnyy sotrudnik; TUSHCHENKO, Anatoliy Grigor'yevich, inzh.; FETISOV, Viktor Vladimirovich, kand.tekhn.nauk, dotsent

Analysis of transient processes in a two-speed induction motor with a choke in the stator circuit and intermittent power supply. Izv.vys. ucheb.zav.; elektromekhanika 8 no.6:644-654 65. (MIRA 18:8)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta (for Sidel'nikov, Fetisov). 2. Institut elektromekhaniki, Leningrad (for Sukhanov). 3. Leningradskiy politekhnicheskiy institut (for Yushchenko).

12995-66 EWT(1)/FCC/EWA(h) GW ACC NR: AR6000794 SOURCE CODE: UR/0169/65/000/009/A013/A013 SOURCE: Ref. zh. Geofizika, Abs. 9A75 AUTHOR: Mandel'shtam, S. L.; Vasil'yev, B. N.; Voron'ko, Yu. K.; Tindo, I. Shurygin, A. I.; Fetisov, Ye. TITLE: Using artificial satellites and rockets to study the short-wave end of the solar spectrum CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 36-54 TOPIC TAGS: solar radiation, artificial earth satellite, solar corona TRANSLATION: Solar radiation was experimentally and theoretically studied in the spectral region with wavelengths shorter than 10 angstroms. It was found that the radiation has a continuous spectrum and is due to recombination of electrons and "heavy" ions in the solar corona. Various experimental measurements of the electron temperature in the radiating regions of the corona gave values lying between 1.5 and 4.1060 Kelvin; the radiation flux at the boundary of the terrestrial atmosphere is 2-8-10-4 erg/cm2-sec. SUB CODE: 08, Card 1/1 HL

L 33282-66 TT/GW ACC NR. AR6017229 SOURCE CODE: UR/0058/65/000/012/D023/D023 AUTHORS: Mandel'shtam, S. L.; Vasil'yev, B. M.; Vojon'ko, Yu, K,; Tindo. Shurygin, A. I.; Retisov. Year Many TITLE: Investigations of the short-wave end of the solar spectrum with the aid of satellitus and rockets 12 SOURCE: Ref. sh. Fisika, Abs. 120177 REP SOURCE: Tr. Komis. po spektroskopii. AN 588R, t. 3, vyp. 1, 1964, 36-54 TOPIC TAGS: solar spectrum, solar corona, solar rediction, geophysic rocket, scientific satellite ABSTRACT: The radiation of the gun was investigated experimentally and theoretically in the spectral region below 10 Å. It is established that this radiation has a continuous spectrum and is due to recombination of electrons and "heavy" ions in the solar corona. The measurements of the electron temperature of the radiating regions of the corona in different experiments yielded values between 1.5 and 4 x  $10^{6}$  °K; the flux of radiation at the limit of the earth's atmosphere is  $2-8\times10^{-4}$  erg/cm<sup>2</sup>-sec. [Translation of abstract] SUB CODE: 03, 22/

SOV/51-7-4-18/32 Van Si-fu, Silin, V.P. and Fetisov, Ye.P. LUTHORS: On the Optical Properties of metal Films in the Region of Anomalous TITLE: Skin Effect. PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 4, pp 547-551 (USSR, Thin films can be used to determine optical constants of conductors. Theory of the optical properties of films has usually neglected AK TRACT: angualous skin effect, which is very important in many metals (Refs 2-4) The authors fill this gap by considering optical properties of metal (conducting) films in the case when the surface losses due to the diffuse scattering of electrons at the surface cannot be neglected. Formulae are given for the phase-shifts of reflected (d) and transmitted (A) waves for the reflection (R) and transmission (T) coefficients and the absorption coefficient  $\Lambda = 1 - R + T$ . They are given both for s-polarization (Eqs 7-11) and p-polarization (Eqs 12-16,. The formulæ simplify considerably in the limiting cases of very Card 1/2

On the Optical Properties of Letal Films in the Rogion of Anomalous Skin Effect

thin films and massive conductors. Further simplification occurs
when the real part of permittivity is considerably larger than unity.
The paper is entirely theoretical. There are a references, 3 of which
was loviet, 1 English, 1 Dutch and 1 mixed (Soviet, English and
German).

SUBLITIO: February 18, 1959

Gard 2/2

s/056/61/041/001/012/0 B102/B214 24,2120 Silin, V. P., Fetisov, Ye. P. AUTHORS: The electromagnetic properties of a relativistic plasma. III TITLE: Zhurnal eksperimental noy i teoreticheskoy fiziki, PERIODICAL: no. 1(7), 1961, 159-170 TEXT: This paper gives a detailed theoretical study of the reflection and absorption of electromagnetic radiation incident obliquely on the plane boundary surface of an electron plasma. The case of perpendicular incidence has been exhaustively investigated already. A semi-infinite. isotropic plasma (without constant field) with arbitrary (in the special case: relativistic) distribution of particles is considered. Not only the losses related to the appearance of transverse fields in the plasma are considered, but also the excitation of longitudinal waves and the losses related to them. To study the electromagnetic properties of the electron plasma (the ions form a homogeneous background) the usual kinetic equation with self-consistent field is used: Card 1/7

The electromagnetic properties of ... Bio2/B2/4

where  $f_o$  is the equilibrium distribution function of the electrons, f the non-equilibrium addition, and  $\nu$  the collision frequency. In the case of mirror reflection of the electrons by the plasma surface the solution of (1) is given by  $\delta f = -\frac{e}{v_x} f_o^c \int_0^1 dt' \exp\left[-\frac{z-t'}{v_x}x\right] vE(t'), \quad v_x < 0.$   $\delta f = \frac{e}{v_x} f_o^c \int_0^1 dt' \exp\left[-\frac{z-t'}{v_x}x\right] vE(t') + \frac{e}{v_x} f_o^c \int_0^1 dt' \exp\left[-\frac{z+t'}{v_x}x\right] \times \left(E_x v_x + E_x v_y - E_x v_z\right), \quad v_x > 0.$ where  $\lambda = \nu - i\omega(1 - v_y \sin e/c)$ ,  $f_o^c$  is an arbitrary equilibrium energy distribution function, and  $\theta$  the angle of incidence. The longitudinal and transverse dielectric constants are given by:  $e^t(w, k) = 1 + \frac{4\pi c^2}{\omega k^2} \int_0^1 dt \frac{(kv)^2 f_o}{\omega + (v - kv)}. \qquad (5)$   $e^t(w, k) = 1 + \frac{2\pi c^4}{\omega k^2} \int_0^1 dt \frac{(kv)^2 f_o}{\omega + (v - kv)}. \qquad (6)$ 

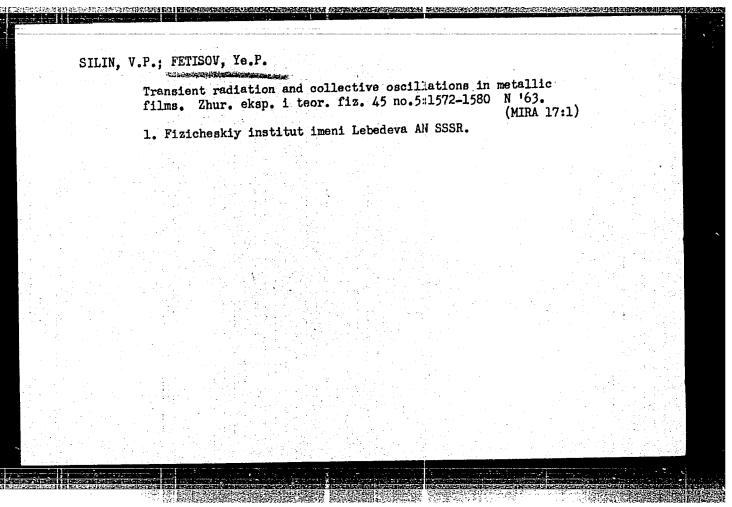
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	s/056/61/041/001/012/021	
The electromagnetic properties of	B102/B214	
In the following the case of s-polarization	on (electric vector of the	1. 1.
incident wave perpendicular to the plane the effective depth of penetration	of incidence) is considered.	For
$\lambda_s^{\min} = \frac{ic}{\omega} (1 + \alpha^t) (\epsilon(\omega) - (1 + \alpha^t) \sin^t)$	<sup>2</sup> 0) <sup>-1/2</sup> with	
$\varepsilon^{t}\left(\omega,k\right)=\varepsilon\left(\omega\right)-\alpha^{t}c^{2}k^{2}/\omega^{2}=1-\omega_{0}^{2}/\omega^{2}-\alpha^{t}c^{2}$	$k^3/\omega^3 + l\nu\omega_0^3/\omega^3$ ;	
$\omega_0^2 = -\frac{4\pi e^2}{3} \int dp v^2 f_0',  \alpha' = -\frac{4\pi e^2}{15}$	$\int \frac{v^4 f_0'}{c^2 \omega^4} d\mathbf{p}. \tag{9}$	
the contributions $\{\lambda_{\mathbf{s}}^{\mathtt{mir}}\}$ due to the exist	ence of a branching point of	the
dielectric constant are given for relativultra-relativistic cases (all for mirror reflection of the electrons by the plasma obtains	reflection). The case of di	ffuse
$\lambda_s^{(D)} = \left\{ \frac{1}{\pi} \int_0^\infty dq \ln \left[ 1 - \frac{\omega^2}{c^2 q^2} \left( e^t \cdot (\omega, k) \right) \right] \right\}$	$[-\sin^2\theta]$	
Card 3/7		
		<b>: 60</b>
수 없는 사람이 되어 있는 것이 되는 것이 되는 것이 되었다. 수 있는 것이 있는 것이 없는 것이 되었다.		
강설등 경기한 경기는 이 시간 기능을 받는다. 이 경기는 사람이 있다면 가장 기술을 받는다. 경기를 기원하는 것들은 이 기능을 받는다면 하는 것을 받는 것을 하는데 함께 기술을 받는다.		
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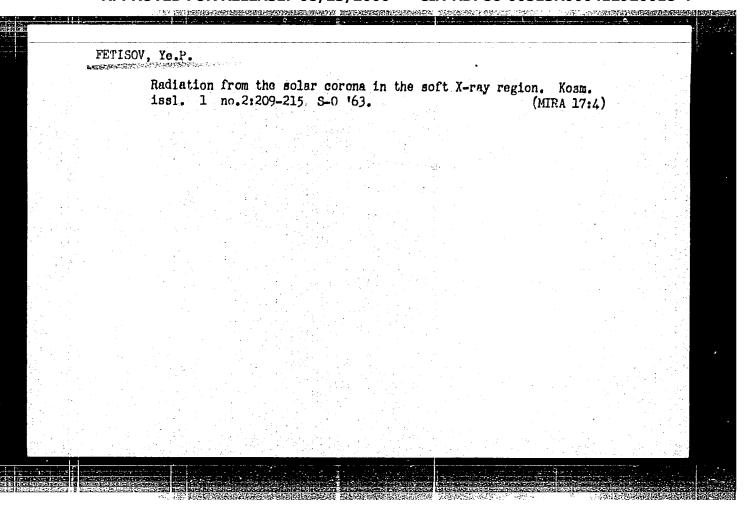
2)117
S/0%6/61/041/001/012/021 • B102/B214
In the following, the p-polarization (electric vector of the incident.  wave in the plane of incidence) is considered. In this case longitudinal  waves may appear in the plasma which is not possible for s-polarization.
Here, the field in the plasma is characterized by: $E_{\nu}(z) = E_{\nu}^{l}(z) + E_{\nu}^{l}(z). \qquad (22)$
$E_{\nu}^{t}(z) = \left\{ E_{\nu}^{t}(0) - t \frac{\omega}{c} \sin \theta E_{z}(0) \right\} \times \cdot$
$\times \frac{1}{\pi} \int_{-\infty}^{+\infty} \frac{dq q^3 e^{iqz}}{[q^3 + (\omega/c)^2 \sin^2 \theta] [(\omega/c)^3 e^i (\omega, k) - (\omega/c)^2 \sin^3 \theta - q^4]},  (23).$
$E_y^l(z) = \left\{ E_y^l(0) - l \frac{\omega}{c} \sin \theta E_x(0) \right\} \frac{1}{\pi} \int_{-\infty}^{+\infty} \frac{dq \sin^2 \theta}{\left[ q^2 + (\omega/c)^2 \sin^2 \theta \right] s^l(\omega, k)} . \tag{24}$
the complex reflection coefficient is given by
$r_{\rho} = \frac{\cos \theta - Z_{\rho} \left( c/4\pi \right)}{\cos \theta + Z_{\rho} \left( c/4\pi \right)} . \tag{25}$
Card 4/7
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The electromagnetic properties of ...  $\frac{26|117}{5/055/61/041/001/012/021}$ Here, the effective depth of penetration is obtained additively from the transverse and longitudinal ones:  $\lambda_p^i = -\frac{1}{\pi} \int_{-\infty}^{\infty} \frac{dq^3}{[q^2 + (\omega/c)^2 \sin^3 \theta] \{(\omega/c)^2 \sin^3 \theta\} e^{i(\omega,k)} - (\omega/c)^2 \sin^3 \theta - q^2\}} (27)$   $\lambda_p^7 = -\frac{\sin^3 \theta}{\pi} \int_{-\infty}^{\infty} \frac{dq^3}{[q^3 + (\omega/e)^2 \sin^3 \theta] e^{i(\omega,k)}} (28)$ The contributions to the left-hand sides of these formulas due to dielectric constant branching are:  $\delta \lambda_p^i = -\frac{2i}{\pi} \frac{e}{\omega} (1 + iv/\omega) \int_{-\infty}^{\infty} \frac{dx}{x} [x^2 - \sin^3 \theta \left(\frac{i\omega}{\omega + iv}\right)^2]^i \text{Im } e^i_+ \left(\omega, \frac{\omega + iv}{c} x\right) \times \left[\left[\operatorname{Re} e^i_+ \left(\omega, \frac{\omega + iv}{c} x\right) - (1 + iv/\omega)^3 x^3\right]^2 + \left[\operatorname{Im} e^i_+ \left(\omega, \frac{\omega + iv}{c} x\right)\right]^3\right]^{-1},$   $\delta \lambda_p^i = -\frac{2i}{\pi} \frac{\sin^3 \theta}{(1 + iv/\omega)} \frac{e}{\omega} \int_{-\infty}^{\infty} dx \operatorname{Im } e^i_+ \left(\omega, \frac{\omega + iv}{c} x\right) \left[e^i_+ \left(\omega, \frac{\omega + iv}{c} x\right)\right]^{-2} \times \left[x^2 - \sin^3 \theta \left(\frac{\omega}{\omega + iv}\right)^2\right]^{-i/s},$  (37)Card 5/7

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25417 s/056/61/041/001/012/ The electromagnetic properties of B102/B214	<b>/</b> 021	<i>f</i> :	
Here again a special case is investigated. If $u < \epsilon'(\omega) \ll 1$ ,	in °k,	X10	
Ne the number of electrons per cm, and b the course	(45)		,
obtains for the absorptivity of the plasma, $A^{(p)} = \frac{A \cos \theta \sin^{3}\theta \sqrt{\alpha' s''(\omega)}}{[s''^{2} \cos \theta + \sqrt{\alpha'} \sin^{3}\theta]^{2} + (-1 + \sin^{3}\theta / s')s''^{2}}.$ If, in addition, $(\epsilon')^{3} \gg \alpha^{1}$ , one has $A^{(p)} = \frac{4 \sqrt{\alpha' s'(\omega)}}{1 - s'(\omega)} \frac{\cos \theta \sin^{3}\theta}{\sin^{3}\theta - s'(\omega)\cos^{3}\theta}.$	(46)		***
The heat released per cm3 at a depth z on account of the absorpt	ion of	53	!
$\frac{Q^l}{V} = \frac{\omega}{8\pi} \left( \frac{v}{\omega} \frac{\omega_0^2}{\omega^2} \right) \left[ 1 + r_\rho \right]^2 \left[ H_{xt}(0) \right]^2 \exp \left\{ -\frac{zv}{c} \frac{1}{\left[ s'(\omega) - \sin^2\theta \left( 1 + \alpha^l \right) \right]^{1/s}} \right\},$		5	
for transverse waves one has analogously			i
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	GENERAL STREET		

c'' = \frac{\nu_{3\delta}\nu_{1}^{\omega_{1}}}{\omega_{1}^{\omega}} + \frac{\nu_{1}^{\omega_{1}}}{\omega_{1}^{\omega_{1}}} \text{cy}\left(\frac{\omega_{1}^{\omega_{1}}}{\omega_{1}^{\omega_{1}}}\right)^{\omega_{1}}}  \text{(48)}.  The asymptotic behavior of the field for large z is investigated in an appendix. There are 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.  ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev of the Academy of Sciences USSR)  SUBMITTED: January 4, 1961	The electroma	$\frac{\frac{26117}{5/056/61/041/001/012/021}}{\frac{5/056/61/041/001/012/021}{8102/8214}}$ gnetic properties of $\frac{\epsilon^{t''}}{\frac{1}{8\pi}} \epsilon^{t''}  1 + r_{\rho} ^{2}  H_{xt}(0) ^{2} \exp\left\{-\frac{2\omega}{c \sqrt{\sigma^{2}}} \frac{\epsilon^{t''}}{[\epsilon' - \alpha^{2} \sin^{2} \theta]^{3/2}}\right\},$
appendix. There are 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.  ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev of the Academy of Sciences USSR)  SUBMITTED: January 4, 1961		
(Institute of Physics imeni P. N. Lebedev of the Academy of Sciences USSR)  SUBMITTED: January 4, 1961	The asymptotic appendix. Th	c behavior of the field for large z is investigated in an ere are 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.
Card 7/7	ASSOCIATION:	(Institute of Physics imeni P. N. Lebedev of the Academy
	SUBMITTED:	January 4, 1961
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ACCESSION NR. AP4032723

8/0033/64/041/002/0299/0301

AUTHOR: Ferisov, Ye. P.

TITLE: Radiation of solar corona in the spectral region shorter than  $10\text{\AA}$ 

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 2, 1964, 299-301

TOPIC TAGS: solar corona, coronal radiation, ion concentration, chemical element, radiation intensity, linear radiation, continuous radiation, recombination, electron density, hydrogen, helium

ABSTRACT: The intensity of coronal radiation depends upon the concentration of ions of chemical elements in the corona. Computations of radiation intensities are performed using Elwert formulas for ionization and Ivanov-Kholodny\*y and other formulas for recombination. Results obtained by both muthods do not markedly differ. Radiation flux as well as continuous and linear radiation is proportional to the square of electron density in the corona. The recombination radiation may be increased through transitions to higher levels.

Card 1/2

	ACCESSION NR. AP4032723		
	The linear radiation is to collisions with electrical as of continuous radien and helium in the radius a table. The tabular	assumed to be caused by ion excitation due rons. The intensity of linear radiation as diation of heavy elements and also of hydromage shorter than 10A is computed and given data show a predominance of continuous ations of heavy elements at temperatures a the major fraction of the radiation flux.	
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ACCESSION NR: AP5026054

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AUTHOR: Mandel'shtam, S. L.; Prokudina, V. S.; Tindo, I. P.; Fetisov, Ye. P.

TITLE: On the x-radiation of the quiet sun \715

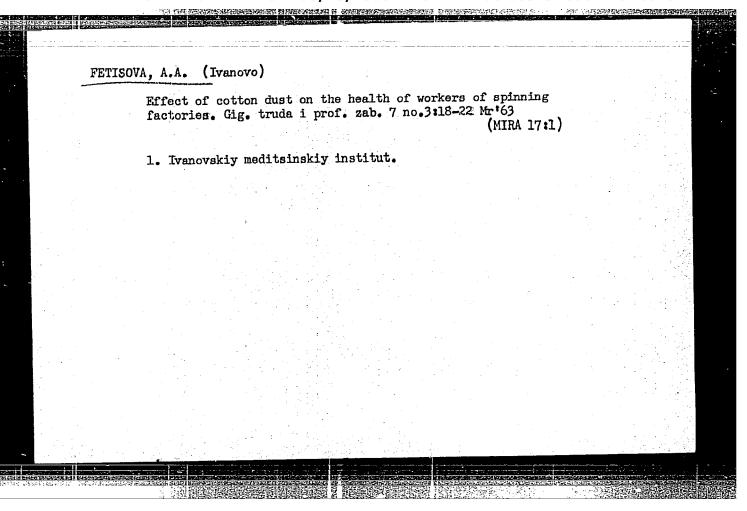
SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 5, 1965, 737-750

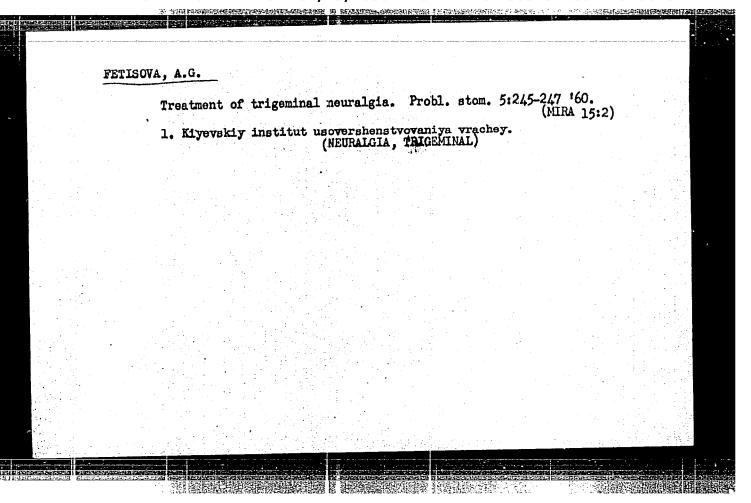
TOPIC TAGS: sun, solar emission, quiet sun, solar x radiation, solar physics, solar activity, disturbed sun

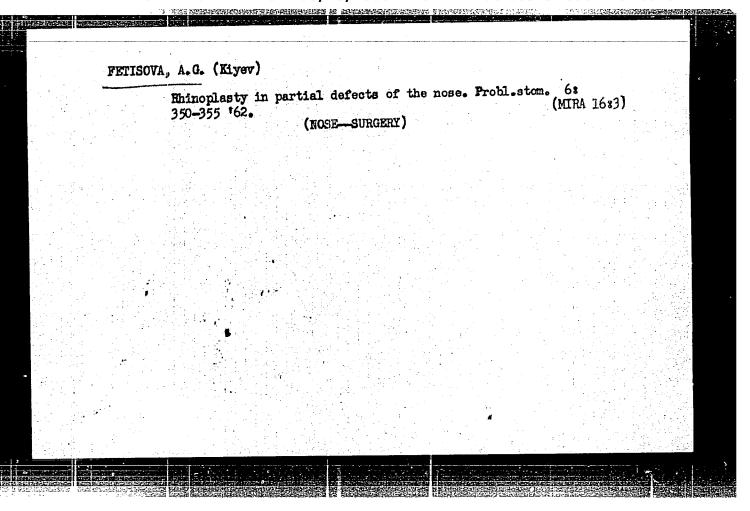
ABSTRACT: The results of computations of the thermal x-radiation of the sum in the wavelength region shorter than 20 Å are examined, and the computed values of radiation fluxes compared with experimental data. To obtain a "volumetric measure of the emission" of the various regions of the corona that enter into the computational data, experimental values based on radiospectroheliograms at a wavelength of 9.1 cm are used. The temperature of the undisturbed corona is taken as values lying within the limits of  $1.5-2.5\cdot10^6$  K are assigned. Computational and experimental values of x-ray flux are in good agreement for different levels of a thermal nature. It is composed of the virtually constant component emitted Card 1/2

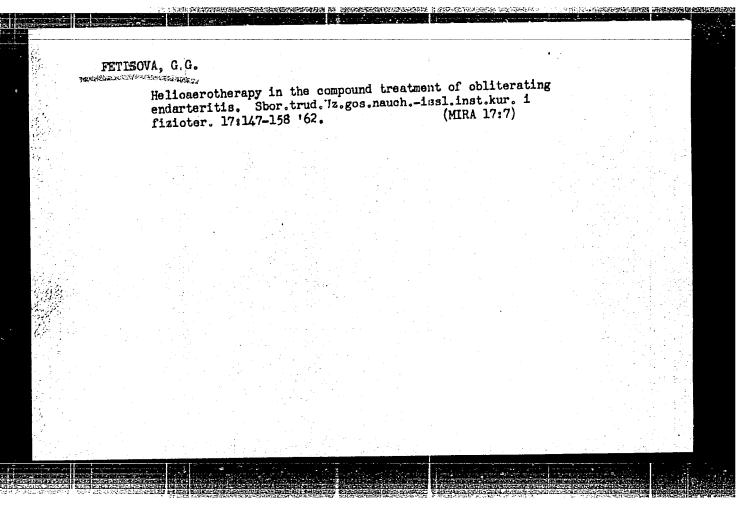
L 20965-66 ACCESSION NR: AP5026054 from undisturbed coronal regions to which the slowly changing component, corresponding to "hotter" radiation from active coronal regions, is superimposed. This latter component changes greatly depending on the number and size of the active regions. . It is noted that while both the active and quiet regions make comparable contributions in the decimeter radio range, the contributions of the quiet regions are negligible in the x-ray region at  $\lambda < 20$  Å. Therefore, no proportionality can be expected between the total flux of radio and x-radiation. To verify these findings, it is planned to scan the solar disk in two spectral ranges, viz, 2-10 and 8-18 Å. This will make it possible to determine Te and Ne simultaneously but independently, and to compile a chart showing the distribution of Ne and Te over the solar disk. Orig. art. has: 3 figures, 7 tables, and 7 formulas. [DM] ASSOCIATION: none SUBMITTED: 16May64 ENCL: SUB CODE: AA NO REF SOV: 011 OTHER: 014 ATD PRESS:

FETISOVA, A.A., Gand Med Sci-(disc) "Effect of the dust factor in cotton-spinning factories on the health of the workers, and prophylactic measures." Ivanovo, 1958. 16 pp (Ivanovo State Med Inst), 200 copies (KL, 45-58, 153)







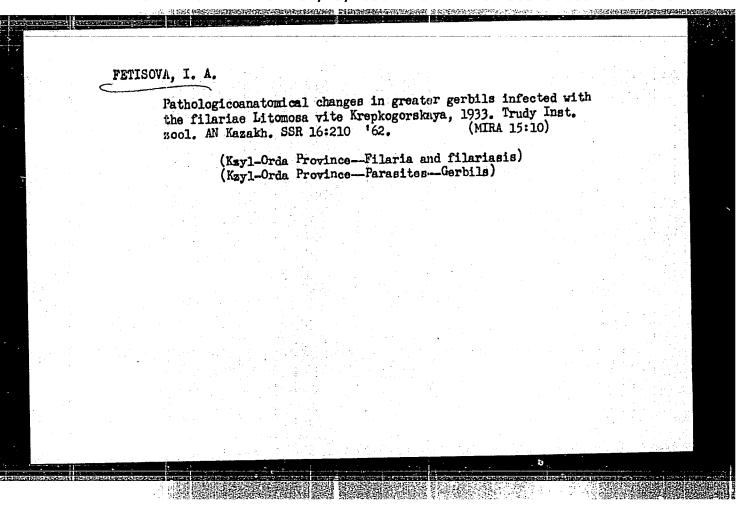


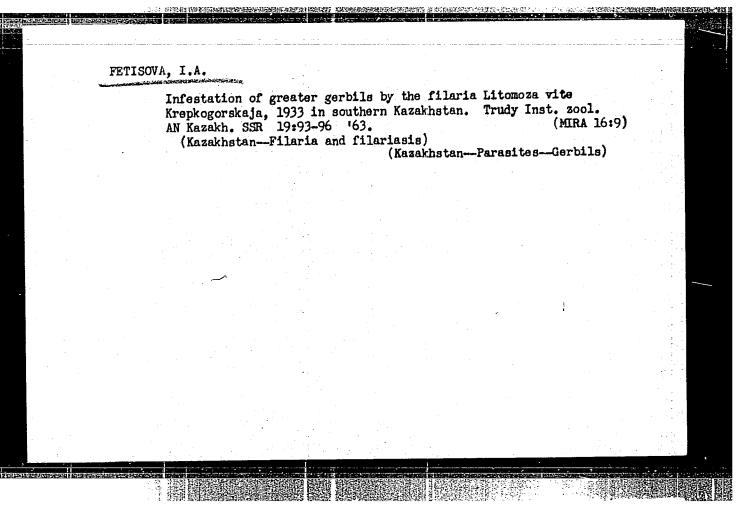
OKOPNIK, B.M.; FETISOVA, G.G.

Physical therapy in endarteritis oblitorans. Vop. kur., fizioter.
i lech. fiz. kul't. 27 no.1:46-48 '62. (MIRA 15:5)

1. Iz klinicheskogo otdela (zav. - prof. G.M.Freydovich) Uzbekskoge
instituta kurortologii i fizioterapii imeni Samashko (dir. - dotsent
Ya.K.Muminov) i Tashkentskoy gorodskoy fizioterapevticheskoy polikliniki
(zav. - Z.N. Nazurullayev).

(ARTERIES--DISEASES) (PHYSICAL THERAPY)





SPIVAK, M.Ta.; ARGUDAYEVA, N.A.; NABIYEV, E.G.; CHISTOVICH, G.N.;
RIVLIN, M.I.; SEMENOV, M.Ya.; KRUGLIKOV, V.M.; SHAL'NEVA, A.M.;
TITROVA, A.I.; RAYKIH, B.N.; MILYAYEVA, Ye.N.; BRUDNAYA, E.I.;
GODINA, I.F.; VOL'FSON, G.I.; SOSONKO, S.M.; KOLESINSKAYA, L.A.;
VYSOTSKIY, B.V.; MALYKH, F.S.; MIROTVORTSEV, Yu.I.; SYCHEVSKIY,
P.T.; GOPACHENKO, I.M.; KARPITSKAYA, V.M.; FETISOVA, I.A.;
MARTYNYUK, Yu.V.; EMDINA, I.A.

Annotations. Zhur. mikrobiol., epid. i immun. 40 no.3:128-131 Mr 163.

1. Iz Kemerovskogo meditsinskogo instituta i Kemerovskoy klinicheskoy bol'nitsy No.3 (for Spivak, Argudayeva). 2. Iz Kazanskogo instituta usovershenstvovaniya vrachey imeni Lenina (for Nabiyev). 3. Iz Leningradskogo kozhnogo dispansera No. 1 (for Chistovich, Rivlin). 4. Iz Rostovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (for Semenov). 5. Iz Stavropol'skogo instituta vaktsin i syvorotok (for Kruglikov, Shal'neva, Titrova, Raykis). 6. Iz Kuybyshevskogo instituta epidemiologii, mikrobiologii i gigiyeny i TSentral'nogo instituta usovershenstvovaniya vrachey (for Milyayeva). 7. Iz Vseseyuznogo nauchno-issledovatel'skogo instituta zhelezno-dorozhnoy gigiyeny Glavnogo sanitarnogo upravleniya Ministerstva putey soobshcheniya i Detskoy polikliniki st. Lyublino

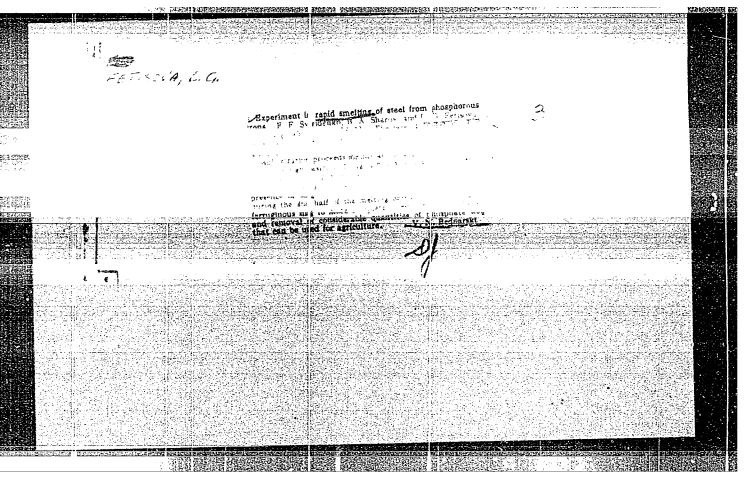
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Mirotvortsev, Sychevskiy, Gopachenko). 10. Iz Yaroslavskogo meditsinskogo instituta (for Karpitskaya). 11. Iz Aralmorskoy protivochumnoy stantsii (for Fetisova). 12. Iz L'vovskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Martynyuk, Emdina).	

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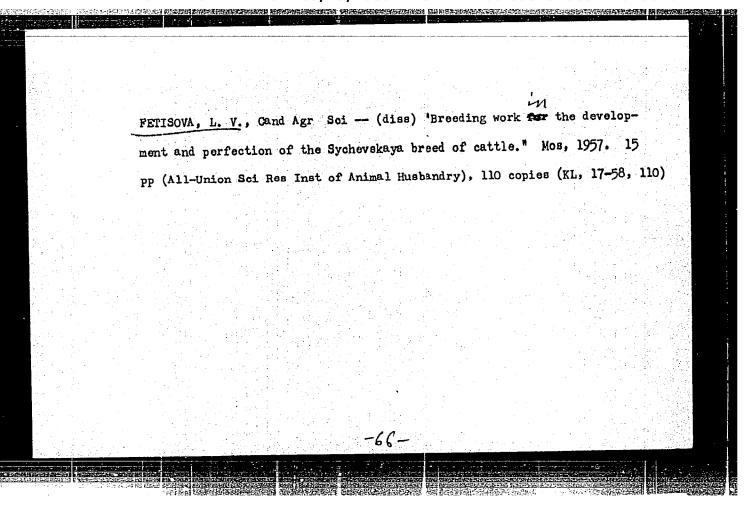
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IVANOV, V.A.; KUCHMINA, N.Ya. FETISOVA, L.N.

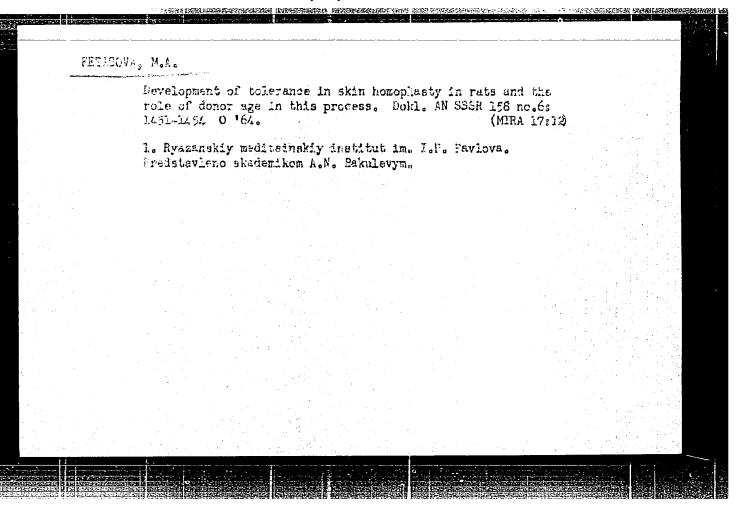
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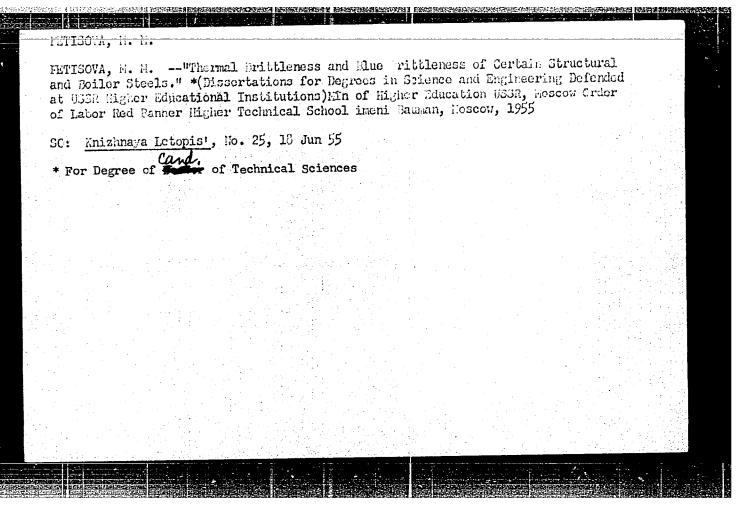
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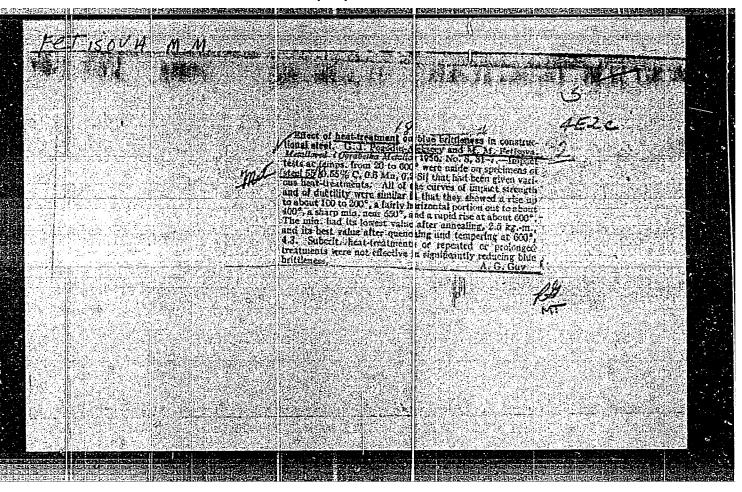
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AUTHOR: Fetisova. M. A.	
TITLE: Rols of donor's a	ge in homoplastic skin transplants in rats
CITED SOURCE: 3b. 3 Vses	konferentsiya po peresadke tkaney 1 1963, 478-479
Popic TAGS: homoplasty,	skin, transplantation, rat, accretion,
TRANSIATION: Conditions transplant takes place we one experimental series s and in another experiment old donors. Tolerance in method: an areactive sta	under which true accretion of a skin ire investigated in experiments on rats. In skin was taken from 2 to 3 days old donors, tal series skinwas taken from 2 to 3 mos in the recipients was developed by Yelimov's ate was induced in the animals by administer- edinal into the organism, 4 to 6 hrs later a in was administered, and then donor proteins
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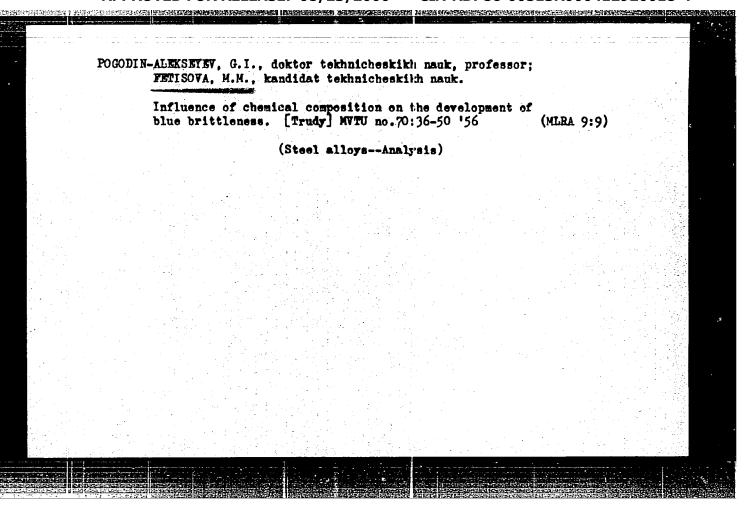
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were given to the tered subcutaneous organs and brain, homogenate of intruder the skin, single case. All tolerance was indicated as a server to the state of the server to the state of the server to	If ground ti In the other rnal organs, In the first : the transplan	saue prepar r series r and piece series tol nts died.	red from the ats were in a sof brain we are a remove did a la l	odonor's fected with fere implan for develop priment who ad pieces o	internal  1 a  1 a  1 ted  1 in a  1 i	
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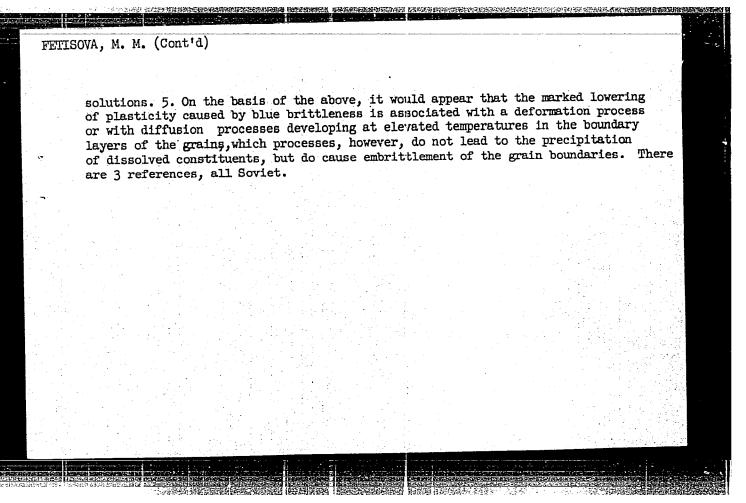




FETISOVA, M. M. (Cand. Tech. Sci.): POGODIN-ALEKSEYEV, G. I. (Dr. Tech. Sci.);

"Change in Microstructure, Type of Fracture, Hardness, and Coercive Force of Steel in the Blue-Brittle State," Termicheskaya otrabotka i prochnost' metallov i splavov; sbornik statey (Heat Treatment and Strength of Metals and Alloys; Collection Articles) Moscow, Mashgiz, 1958, 177 p.

The authors' investigation led to the following conclusions: 1. The change in the type of fracture of the specimens corresponds to the change in toughness and plasticity in theblue-brittle temperature range. At testing temperatures of 100-400°C., the fracture changes from coarsely fibrous to finely fibrous. at 400° crystalline zones appear. At 525-500° the crystalline zones achieve their maximum extent, and the plane of fracture becomes "stepped", as if laminated. At higher temperatures, the fracture again becomes fibrous. 2. A microscopic study of crack distribution showed that at 525-550° the fracture ordinarily takes place along the grain boundaries, but in tough specimens it is usually transcrystalline. No substantial difference in the structure of tough and brittle specimens was observed at magnifications of up to 1700 times. 3. The hardness of specimens that were impact-tested at blue-brittle temperatures and cooled to room temperature was rather high as compared with specimens tested at lower temperatures. This indicated a certain residual brittleness caused by the impact test in the 500-5500 range. 4. Measurement of the coercive force of brittle and tough specimens showed no numerical difference for specimens retaining some brittleness after being heated in the blue-brittle range. Hence it is seen that the development of blue brittleness is not accompanied by a decomposition of solid



FETISOVA, M.M. sov/1558 PHASE I BOOK EXPLOITATION 25(1), Moscow. Dom nauchno-tekhnicheskoy propagandy im. F.E. Dzerzhinskogo Sovremennyye splayy 1 ikh termicheskaya obrabotka (Contemporary Alloys and Their Heat Treatment) Moscow, Mashgiz, 1958. 329 p. 12,000 copies printed. Additional Sponsoring Agency: Obshchestvo po ramprostraneniyu politicheskikh i nauchnykh znaniy RSFSR. Ed. (Title page): Yu. A. Geller, Doctor of Technical Sciences; Ed. (Inside book): V.V. Rzhavinskiy, Engineer; Tech. Ed.: B.I. Model'; Managing Ed. for Literatare on Metal Working and Tool Making; R.D. Beyzel'man, Engineer. PURPOSE: The book is intended for engineering and technical personnel of heattreatment shops and test laboratories of machine-building plants. COVERAGE: This collection of 28 articles, compiled by 33 authors, aims to acquaint the reader with modern practice in the heat treatment of steels. The authors Card 1/6

Contemporary Alloys and Their Heat Treatment

SOV/1558

are primarily concerned with the development of various types of structural, tool, and heat-resistant steels and with the use of their alloying elements. Materials-handling equipment is described at some length. The treatment of alloys, particularly those of titanium, also comes within the scope of the collection. The book is thoroughly diagrammed, and a good deal of the material is shown in graphical form. Among the problems dealt with are the minimization of deformations, the introduction of the automatic control of heat-treating equipment, together with fully mechanized tool manufacture, and the optimum proportions of different alloying elements. There are numerous tables and drawings. Bibliographic listings placed at the end of chapters are predominantly Soviet. The articles comprising this collection are reports delivered at a conference held in the Scientific and Technical Propaganda House imeni F.E. Dzerzhinskiy in Moscow.

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El'yasheva, Titanium	M.A. Strength of Welded Joints Mad	ie of VTID Industrial	319
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SOV/137-58-11-23455

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 231 (USSR)

AUTHORS: Pogodin-Alekseyev, G. I., Fetisova, M. M.

TITLE: Changes Occurring in the Microstructure, Fracture Texture, Hardness, and Coercive Force of Steel in the Blue Brittle Stage (Izmenez

niye mikrostruktury, vida izloma, tverdosti i koertsitivnoy sily stali

pri sinelomkosti)

PERIODICAL: V sb.: Term. obrabotka i prochnost' metallov i splavov. Moscow,

Mashgiz, 1958, pp 115-124

ABSTRACT: Specimens of steel St 55 were employed in investigations which

were carried out in order to determine the nature of the failure of steel, both in the ductile state and in a state of blue brittleness, by observing the appearance of the fracture and the microstructure. The investigations also dealt with changes occurring in the hardness, microhardness, and coercive force of specimens subjected to impact tests at temperatures of 16, 150, 300, 400, 475, 500, 525, 550, 575,

and 600°C. It was established that at testing temperatures ranging from 100 to 400° the fibrous nature of the fracture changes from a

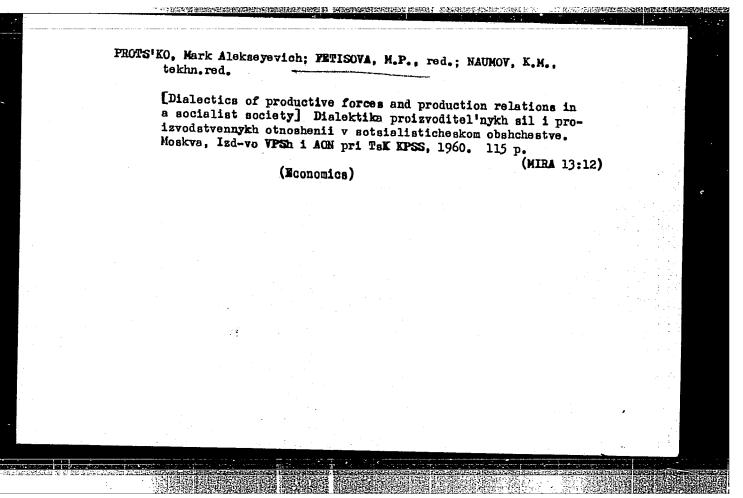
Card 1/2 coarse to a fine structure; at a temperature of 400°, crystalline

SOV/137-58-11-23455 Changes Occurring in the Microstructure, Fracture Texture, Hardness, and (cont.)

regions appear on the surface of the fracture and attain their maximum magnitude at 525-550°. The fracture acquires fibrous characteristics again as the temperature is increased further. The hardness of specimens subjected to impact tests at temperatures of blue brittleness was found to be somewhat greater than the hardness of specimens tested at lower temperatures. Measurements of the coercive force failed to reveal any difference between the ductile and brittle specimens.

T. F.

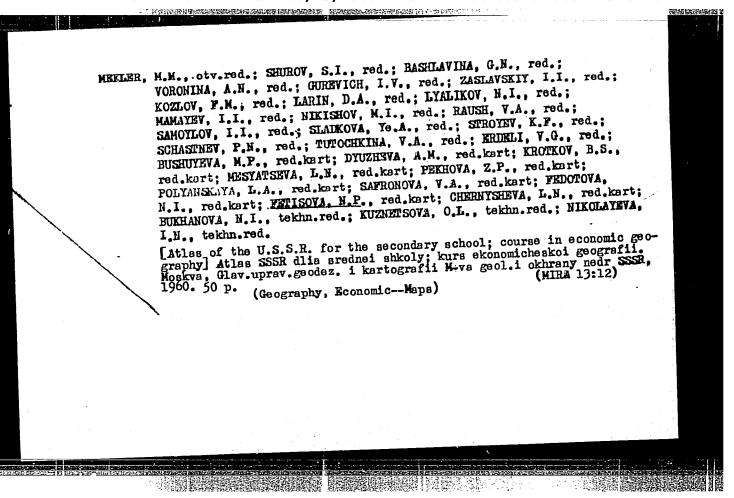
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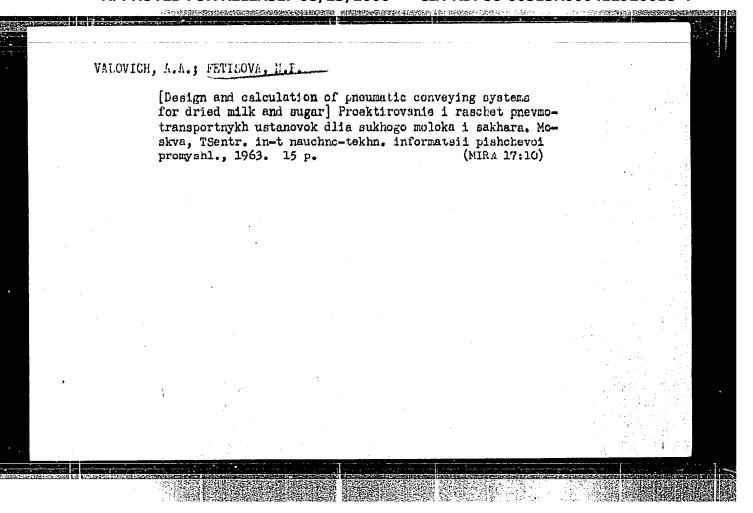


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SIMONOV, I.G.; LUPEKIN, L.A.; BORISOVA, N.V.; FETISOVA,
N.A.; VAYSBERG, I.Ye.; SUCHKOV, V.G.; KHRENNIKOV, N.S.;
FILATOV, M.F., red.; ZMIYEVSKAYA, L.G., red.

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1. TSentral'nyy institut nauchno-zekhnichesk oy informatsii
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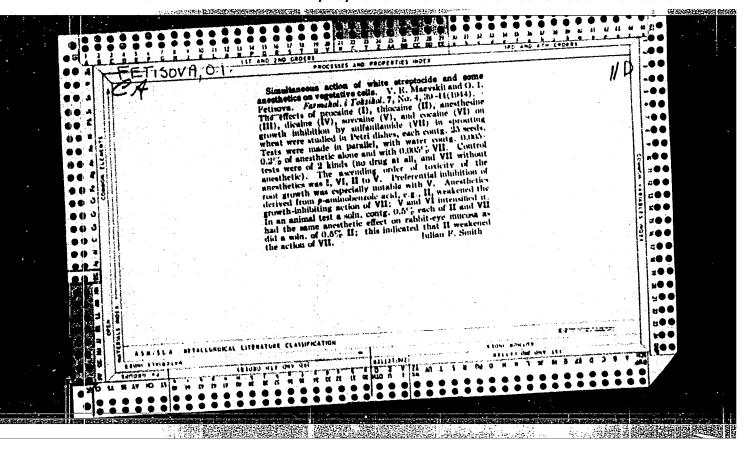


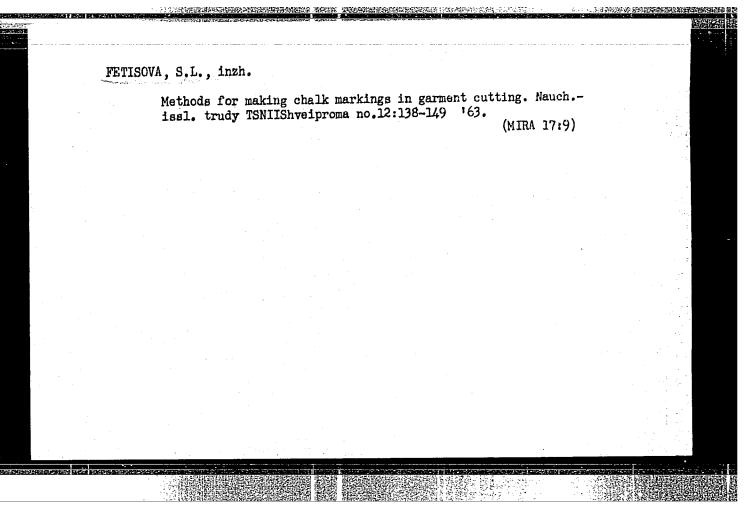


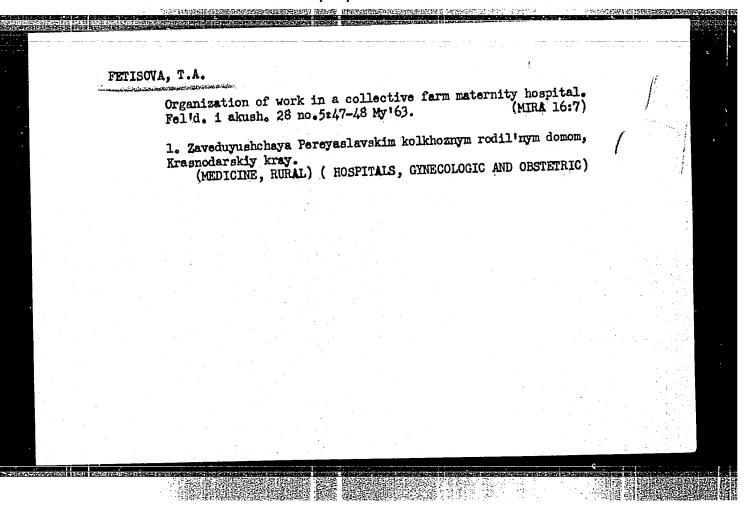
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1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i Instituta epidemiologii i gigiyeny Armyanskoy SSR.

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1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny im. akad. N.D. Strazhesko.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000412920018-4"

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Author : Fetisova T. V. Inst : Dnepropetrovsk Med. Inst.

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plication and After Removal of Hemostatic

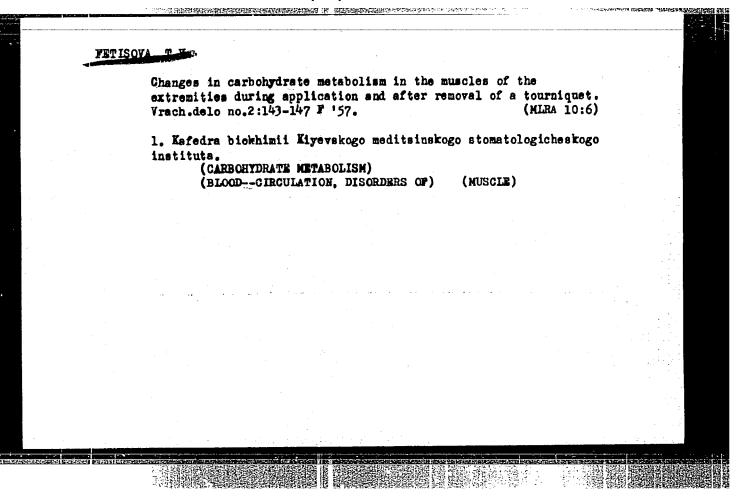
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Abstract! No abstract.

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SHAMRAY, Ye.I. [Shamarai, IR.F.], ERISOVA, T.I., VEREMIYENKO, K.N.
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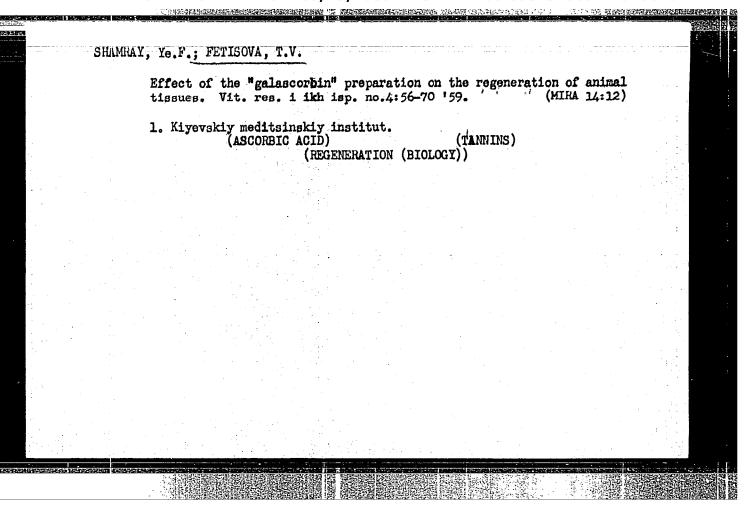
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(ASCORBIC ACID)

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FMTISOVA, T.V. (Klyev, Kreshchatik, d.23, kv.40)

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